



# **STIC Search Report**

## **Biotech-Chem Library**

**STIC Database Tracking Number: 145969**

**TO: Ben Sackey**  
**Location: 5c31/5c18**  
**Art Unit: 1626**  
**Monday, February 28, 2005**

**Case Serial Number: 10/684726**

**From: Noble Jarrell**  
**Location: Biotech-Chem Library**  
**Rem 1B71**  
**Phone: 272-2556**

**Noble.jarrell@uspto.gov**

### **Search Notes**

=> b reg

FILE 'REGISTRY' ENTERED AT 12:24:33 ON 28 FEB 2005  
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Property values tagged with IC are from the ZIC/VINITI data file  
 provided by InfoChem.

STRUCTURE FILE UPDATES: 27 FEB 2005 HIGHEST RN 838819-79-7  
 DICTIONARY FILE UPDATES: 27 FEB 2005 HIGHEST RN 838819-79-7

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 18, 2005

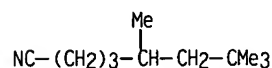
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 conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more  
 information enter HELP PROP at an arrow prompt in the file or refer  
 to the file summary sheet on the web at:  
<http://www.cas.org/ONLINE/DBSS/registryss.html>

=> d ide 113

L13 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2005 ACS on STN  
 RN 681449-57-0 REGISTRY  
 CN Octanenitrile, 5,7,7-trimethyl- (9CI) (CA INDEX NAME)  
 FS 3D CONCORD  
 MF C11 H21 N  
 SR CA  
 LC STN Files: CA, CAPLUS, USPATFULL  
 DT.CA CAplus document type: Patent  
 RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); PRP  
 (Properties); USES (Uses)



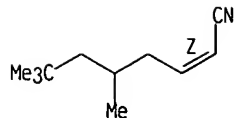
\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

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L26 ANSWER 1 OF 4 REGISTRY COPYRIGHT 2005 ACS on STN  
 RN 681449-58-1 REGISTRY  
 CN 2-Octenenitrile, 5,7,7-trimethyl-, (2Z)- (9CI) (CA INDEX NAME)  
 FS STEREOSEARCH  
 MF C11 H19 N  
 SR CA  
 LC STN Files: CA, CAPLUS, USPATFULL  
 DT.CA CAplus document type: Patent  
 RL.P Roles from patents: PREP (Preparation); RACT (Reactant or reagent)

Double bond geometry as shown.

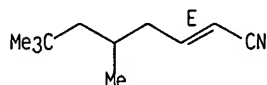


\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L26 ANSWER 2 OF 4 REGISTRY COPYRIGHT 2005 ACS on STN  
RN 29898-30-4 REGISTRY  
CN 2-Octenenitrile, 5,7,7-trimethyl-, (2E)- (9CI) (CA INDEX NAME)  
OTHER CA INDEX NAMES:  
CN 2-Octenenitrile, 5,7,7-trimethyl-, (E)- (8CI)  
FS STEREOSEARCH  
MF C11 H19 N  
LC STN Files: CA, CAPLUS, IFICDB, IFIPAT, IFIUIDB, USPATFULL  
DT.CA CAplus document type: Patent  
RL.P Roles from patents: PREP (Preparation); RACT (Reactant or reagent)

Double bond geometry as shown.

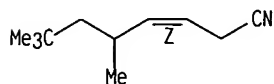


\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

2 REFERENCES IN FILE CA (1907 TO DATE)  
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L26 ANSWER 3 OF 4 REGISTRY COPYRIGHT 2005 ACS on STN  
RN 29680-30-6 REGISTRY  
CN 3-Octenenitrile, 5,7,7-trimethyl-, (3Z)- (9CI) (CA INDEX NAME)  
OTHER CA INDEX NAMES:  
CN 3-Octenenitrile, 5,7,7-trimethyl-, (Z)- (8CI)  
FS STEREOSEARCH  
MF C11 H19 N  
LC STN Files: CA, CAPLUS, IFICDB, IFIPAT, IFIUIDB, SPECINFO, USPATFULL  
DT.CA CAplus document type: Patent  
RL.P Roles from patents: PREP (Preparation); RACT (Reactant or reagent)

Double bond geometry as shown.



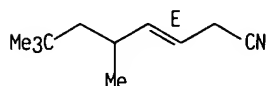
\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

2 REFERENCES IN FILE CA (1907 TO DATE)  
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L26 ANSWER 4 OF 4 REGISTRY COPYRIGHT 2005 ACS on STN  
RN 29680-29-3 REGISTRY

CN 3-Octenenitrile, 5,7,7-trimethyl-, (3E)- (9CI) (CA INDEX NAME)  
 OTHER CA INDEX NAMES:  
 CN 3-Octenenitrile, 5,7,7-trimethyl-, (E)- (8CI)  
 FS STEREOSEARCH  
 MF C11 H19 N  
 LC STN Files: CA, CAPLUS, IFICDB, IFIPAT, IFIUDB, SPECINFO, USPATFULL  
 DT.CA CAplus document type: Patent  
 RL.P Roles from patents: PREP (Preparation); RACT (Reactant or reagent)

Double bond geometry as shown.



**\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\***

2 REFERENCES IN FILE CA (1907 TO DATE)  
 2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

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L20 ANSWER 38 OF 38 REGISTRY COPYRIGHT 2005 ACS on STN  
 RN 372-09-8 REGISTRY  
 CN Acetic acid, cyano- (6CI, 8CI, 9CI) (CA INDEX NAME)  
 OTHER NAMES:  
 CN 2-Cyanoacetic acid  
 CN Cyanoacetic acid  
 CN Cyanoethanoic acid  
 CN Malonic mononitrile  
 CN Monocyanoacetic acid  
 CN NSC 5571  
 FS 3D CONCORD  
 MF C3 H3 N O2  
 CI COM  
 LC STN Files: AGRICOLA, ANABSTR, AQUIRE, BEILSTEIN\*, BIOBUSINESS, BIOSIS, CA, CAOLD, CAPLUS, CASREACT, CBNB, CEN, CHEMCATS, CHEMINFORMRX, CHEMLIST, CHEMSAFE, CIN, CSCHM, CSNB, DETHERM\*, EMBASE, GMELIN\*, HODOC\*, HSDB\*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK\*, MSDS-OHS, NIOSHTIC, PDLCOM\*, PIRA, PROMT, PS, RTECS\*, SPECINFO, SYNTHLINE, TOXCENTER, USPAT2, USPATFULL  
 (\*File contains numerically searchable property data)  
 Other Sources: DSL\*\*, EINECS\*\*, TSCA\*\*  
 (\*\*Enter CHEMLIST File for up-to-date regulatory information)  
 DT.CA CAplus document type: Conference; Dissertation; Journal; Patent; Report  
 RL.P Roles from patents: ANST (Analytical study); BIOL (Biological study); CMBI (Combinatorial study); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses); NORL (No role in record)  
 RLD.P Roles for non-specific derivatives from patents: BIOL (Biological study); PREP (Preparation); PROC (Process); RACT (Reactant or reagent); USES (Uses)  
 RL.NP Roles from non-patents: ANST (Analytical study); BIOL (Biological study); CMBI (Combinatorial study); FORM (Formation, nonpreparative); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses); NORL (No role in record)  
 RLD.NP Roles for non-specific derivatives from non-patents: ANST (Analytical study); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses)

NC-CH<sub>2</sub>-CO<sub>2</sub>H

\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1728 REFERENCES IN FILE CA (1907 TO DATE)  
81 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
1730 REFERENCES IN FILE CAPLUS (1907 TO DATE)  
38 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

=> d his

(FILE 'HOME' ENTERED AT 11:27:15 ON 28 FEB 2005)

FILE 'HCAPLUS' ENTERED AT 11:28:03 ON 28 FEB 2005

L1 1 US20040127394/PN  
E DE2002-10247966/AP,PRN  
L2 1 DE2002-10247966/AP,PRN  
L3 1 L1-2

FILE 'REGISTRY' ENTERED AT 11:28:48 ON 28 FEB 2005

FILE 'HCAPLUS' ENTERED AT 11:28:49 ON 28 FEB 2005  
L4 TRA L3 1- RN : 9 TERMS

FILE 'REGISTRY' ENTERED AT 11:28:49 ON 28 FEB 2005  
L5 9 SEA L4

FILE 'WPIX' ENTERED AT 11:28:52 ON 28 FEB 2005

L6 1 US20040127394/PN  
E DE2002-10247966/AP,PRN  
L7 1 DE2002-10247966/AP,PRN  
L8 1 L6-7

FILE 'REGISTRY' ENTERED AT 11:55:41 ON 28 FEB 2005

L9 1399 C11H21N  
L10 QUE (PMS OR MAN OR IDS)/CI OR COMPD OR COMPOUND OR UNSPECIFIED  
L11 1275 L9 NOT L10  
L12 5 L11 AND OCTANENITRILE  
SEL 2  
DEL SEL  
SEL RN L12 2  
L13 1 E1 AND L12  
L14 1844 C9H18O  
L15 1582 L14 NOT L10  
L16 18 L15 AND OCTANAL  
L17 199 C3H3NO2  
L18 126 L17 NOT L10  
L19 45 L18 AND ACETIC (1A)ACID  
L20 38 L19 AND CYANO  
L21 1231 C11H19N  
L22 1146 L21 NOT L10  
L23 112 L22 AND NITRILE  
L24 15 L23 AND OCTENENITRILE  
L25 13 L24 AND (2 OR 3) (1A) OCTENENITRILE  
SEL RN 1 10-12 L25  
L26 4 E2-5 AND L25

FILE 'HCAPLUS' ENTERED AT 12:27:07 ON 28 FEB 2005

L27 1 L13  
L28 4 L26 OR OCTENENITRILE (3A) TRIMETHYL  
L29 3655 L20 OR ACETIC (1A) ACID (1A) CYANO OR (?CYANOACETIC/BI OR CYANO

L30 1 L29 AND L28  
 L31 1 L27 AND L28  
 L32 1 L27 OR L30 OR L31

=> b hcap

FILE 'HCAPLUS' ENTERED AT 12:33:00 ON 28 FEB 2005

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FILE COVERS 1907 - 28 Feb 2005 VOL 142 ISS 10

FILE LAST UPDATED: 27 Feb 2005 (20050227/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> d all fhitstr 132 tot

L32 ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2005 ACS on STN

AN 2004:348009 HCAPLUS

DN 140:356957

ED Entered STN: 29 Apr 2004

TI Preparation of fragrant 5,7,7-trimethyloctanenitrile via the Knoevenagel condensation of cyanoacetic acid and isononylaldehyde followed by catalytic hydrogenation

IN Panten, Johannes; Fahlbusch, Karl-Georg; Werner, Matthias; Sillon, Pascal

PA Symrise GmbH & Co. KG, Germany

SO Eur. Pat. Appl., 7 pp.

CODEN: EPXXDW

DT Patent

LA German

IC ICM C07C255-03

ICS A61K007-46

CC 23-19 (Aliphatic Compounds)

Section cross-reference(s): 46, 62

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1413570	A1	20040428	EP 2003-22338	20031004
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
DE 10247966	A1	20040506	DE 2002-10247966	20021015
US 2004127394	A1	20040701	US 2003-684726	20031014
BR 2003004488	A	20040831	BR 2003-4488	20031014
JP 2004137275	A2	20040513	JP 2003-354687	20031015
PRAI DE 2002-10247966	A	20021015		

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
EP 1413570	ICM	C07C255-03
	ICS	A61K007-46
EP 1413570	ECLA	C07C255/03

- DE 10247966 ECLA C07C255/03  
 US 2004127394 ECLA C07C255/03  
 JP 2004137275 FTERM 4H003/AB27; 4H003/AC15; 4H003/BA12; 4H003/EA21;  
 4H003/EB12; 4H003/ED02; 4H003/EE08; 4H003/FA26;  
 4H006/AA01; 4H006/AA03; 4H006/AB14; 4H059/BA44;  
 4H059/DA09; 4H059/EA35
- AB Fragrant 5,7,7-trimethyloctanenitrile, useful as a fragrance in bleaches.  
 is prepared in high yield and selectivity via the Knoevenagel condensation  
 of **cyanoacetic acid** and isononylaldehyde to give the  
 mixed-isomer intermediate Z/E-5,7,7-Trimethyl-2(3)-  
**octenenitriles** which are then subjected to catalytic (e.g., Pd/C)  
 hydrogenation.
- ST trimethyloctanenitrile fragrance prepn
- IT Nitriles, preparation  
 RL: COS (Cosmetic use); PRP (Properties); SPN (Synthetic preparation);  
 BIOL (Biological study); PREP (Preparation); USES (Uses)  
 (aliphatic, 5,7,7-trimethyloctanenitrile; preparation of fragrant  
 5,7,7-trimethyloctanenitrile via the Knoevenagel condensation of  
**cyanoacetic acid** and isononylaldehyde followed by  
 catalytic hydrogenation)
- IT Knoevenagel reaction  
 (of **cyanoacetic acid** and isononylaldehyde to give  
 the mixed-isomer intermediate Z/E-5,7,7-Trimethyl-2(3)-octennitriles)
- IT Hydrogenation  
 (of the mixed-isomer intermediate Z/E-5,7,7-Trimethyl-2(3)-  
 octennitriles into 5,7,7-trimethyloctanenitrile)
- IT Odor and Odorous substances  
 (preparation of 5,7,7-trimethyloctanenitrile as)
- IT Bleaching agents  
 Perfumes  
 (preparation of fragrant 5,7,7-trimethyloctanenitrile for use in)
- IT Hypochlorites  
 RL: RGT (Reagent); TEM (Technical or engineered material use); RACT  
 (Reactant or reagent); USES (Uses)  
 (preparation of fragrant 5,7,7-trimethyloctanenitrile for use in bleaches  
 containing)
- IT Nitriles, preparation  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT  
 (Reactant or reagent)  
 (unsatd., Z/E-5,7,7-Trimethyl-2(3)-octennitriles; preparation of fragrant  
 5,7,7-trimethyloctanenitrile via the Knoevenagel condensation of  
**cyanoacetic acid** and isononylaldehyde followed by  
 catalytic hydrogenation of)
- IT 29680-29-3P 29680-30-6P 29898-30-4P  
 681449-58-1P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT  
 (Reactant or reagent)  
 (intermediate; preparation of fragrant 5,7,7-trimethyloctanenitrile via the  
 Knoevenagel condensation of **cyanoacetic acid** and  
 isononylaldehyde followed by catalytic hydrogenation)
- IT 7782-50-5. Chlorine, reactions  
 RL: RGT (Reagent); TEM (Technical or engineered material use); RACT  
 (Reactant or reagent); USES (Uses)  
 (preparation of fragrant 5,7,7-trimethyloctanenitrile for use in bleaches  
 containing)
- IT 681449-57-0P  
 RL: COS (Cosmetic use); PRP (Properties); SPN (Synthetic preparation);  
 BIOL (Biological study); PREP (Preparation); USES (Uses)  
 (preparation of fragrant 5,7,7-trimethyloctanenitrile via the Knoevenagel  
 condensation of **cyanoacetic acid** and  
 isononylaldehyde followed by catalytic hydrogenation)
- IT 372-09-8. **Cyanoacetic acid** 1333-74-0,  
 Hydrogen, reactions 49824-43-3. Isononylaldehyde  
 RL: RCT (Reactant); RACT (Reactant or reagent)

(preparation of fragrant 5,7,7-trimethyloctanenitrile via the Knoevenagel condensation of cyanoacetic acid and isononylaldehyde followed by catalytic hydrogenation)

RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD  
RE

- (1) Anic Spa; GB 1523028 A 1978 HCAPLUS
- (2) Bush Boake Allen Ltd; EP 0017396 A 1980 HCAPLUS
- (3) Int Flavors & Fragrances Inc; EP 0347596 A 1989 HCAPLUS
- (4) Unilever Plc; EP 0074253 B 1983 HCAPLUS

IT 29680-29-3P

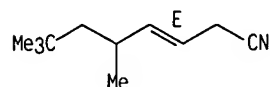
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT  
(Reactant or reagent)

(intermediate: preparation of fragrant 5,7,7-trimethyloctanenitrile via the Knoevenagel condensation of cyanoacetic acid and isononylaldehyde followed by catalytic hydrogenation)

RN 29680-29-3 HCAPLUS

CN 3-Octenenitrile, 5,7,7-trimethyl-, (3E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



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FILE 'HOME' ENTERED AT 12:33:21 ON 28 FEB 2005

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=> d his

(FILE 'HOME' ENTERED AT 11:27:15 ON 28 FEB 2005)

FILE 'HCAPLUS' ENTERED AT 11:28:03 ON 28 FEB 2005

L1 1 US20040127394/PN  
E DE2002-10247966/AP,PRN  
L2 1 DE2002-10247966/AP,PRN  
L3 1 L1-2

FILE 'REGISTRY' ENTERED AT 11:28:48 ON 28 FEB 2005

FILE 'HCAPLUS' ENTERED AT 11:28:49 ON 28 FEB 2005  
L4 TRA L3 1- RN : 9 TERMS

FILE 'REGISTRY' ENTERED AT 11:28:49 ON 28 FEB 2005  
L5 9 SEA L4

FILE 'WPIX' ENTERED AT 11:28:52 ON 28 FEB 2005

L6 1 US20040127394/PN  
E DE2002-10247966/AP,PRN  
L7 1 DE2002-10247966/AP,PRN  
L8 1 L6-7

=> b hcap

FILE 'HCAPLUS' ENTERED AT 11:29:32 ON 28 FEB 2005  
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FILE COVERS 1907 - 28 Feb 2005 VOL 142 ISS 10  
FILE LAST UPDATED: 27 Feb 2005 (20050227/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> d all 13

L3 ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2005 ACS on STN  
AN 2004:348009 HCAPLUS  
DN 140:356957  
ED Entered STN: 29 Apr 2004  
TI Preparation of fragrant 5,7,7-trimethyloctanenitrile via the Knoevenagel condensation of cyanoacetic acid and isononylaldehyde followed by catalytic hydrogenation  
IN Panten, Johannes; Fahlbusch, Karl-Georg; Werner, Matthias; Sillon, Pascal  
PA Symrise GmbH & Co. KG, Germany  
SO Eur. Pat. Appl., 7 pp.  
CODEN: EPXXDW  
DT Patent  
LA German  
IC ICM C07C255-03

ICS A61K007-46  
CC 23-19 (Aliphatic Compounds)  
Section cross-reference(s): 46, 62

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1413570	A1	20040428	EP 2003-22338	20031004 <--
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
DE 10247966	A1	20040506	DE 2002-10247966	20021015 <--
US 2004127394	A1	20040701	US 2003-684726	20031014 <--
BR 2003004488	A	20040831	BR 2003-4488	20031014 <--
JP 2004137275	A2	20040513	JP 2003-354687	20031015 <--
PRAI DE 2002-10247966	A	20021015	<--	

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
EP 1413570	ICM	C07C255-03
	ICS	A61K007-46
EP 1413570	ECLA	C07C255/03 <--
DE 10247966	ECLA	C07C255/03 <--
US 2004127394	ECLA	C07C255/03 <--
JP 2004137275	FTERM	4H003/AB27; 4H003/AC15; 4H003/BA12; 4H003/EA21; 4H003/EB12; 4H003/ED02; 4H003/EE08; 4H003/FA26; 4H006/AA01; 4H006/AA03; 4H006/AB14; 4H059/BA44; 4H059/DA09; 4H059/EA35 <--

AB Fragrant 5,7,7-trimethyloctanenitrile, useful as a fragrance in bleaches, is prepared in high yield and selectivity via the Knoevenagel condensation of cyanoacetic acid and isononylaldehyde to give the mixed-isomer intermediate Z/E-5,7,7-Trimethyl-2(3)-octenenitriles which are then subjected to catalytic (e.g., Pd/C) hydrogenation.

ST trimethyloctanenitrile fragrance prepn

IT Nitriles, preparation  
RL: COS (Cosmetic use); PRP (Properties); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)  
(aliphatic, 5,7,7-trimethyloctanenitrile; preparation of fragrant 5,7,7-trimethyloctanenitrile via the Knoevenagel condensation of cyanoacetic acid and isononylaldehyde followed by catalytic hydrogenation)

IT Knoevenagel reaction  
(of cyanoacetic acid and isononylaldehyde to give the mixed-isomer intermediate Z/E-5,7,7-Trimethyl-2(3)-octennitriles)

IT Hydrogenation  
(of the mixed-isomer intermediate Z/E-5,7,7-Trimethyl-2(3)-octennitriles into 5,7,7-trimethyloctanenitrile)

IT Odor and Odorous substances  
(preparation of 5,7,7-trimethyloctanenitrile as)

IT Bleaching agents  
Perfumes  
(preparation of fragrant 5,7,7-trimethyloctanenitrile for use in)

IT Hypochlorites  
RL: RGT (Reagent); TEM (Technical or engineered material use); RACT (Reactant or reagent); USES (Uses)  
(preparation of fragrant 5,7,7-trimethyloctanenitrile for use in bleaches containing)

IT Nitriles, preparation  
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
(unsatd., Z/E-5,7,7-Trimethyl-2(3)-octennitriles; preparation of fragrant 5,7,7-trimethyloctanenitrile via the Knoevenagel condensation of cyanoacetic acid and isononylaldehyde followed by catalytic hydrogenation of)

IT 29680-29-3P 29680-30-6P 29898-30-4P 681449-58-1P  
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT

(Reactant or reagent)

(intermediate; preparation of fragrant 5,7,7-trimethyloctanenitrile via the Knoevenagel condensation of cyanoacetic acid and isononylaldehyde followed by catalytic hydrogenation)

IT 7782-50-5. Chlorine, reactions

RL: RGT (Reagent); TEM (Technical or engineered material use); RACT

(Reactant or reagent); USES (Uses)

(preparation of fragrant 5,7,7-trimethyloctanenitrile for use in bleaches containing)

IT 681449-57-0P

RL: COS (Cosmetic use); PRP (Properties); SPN (Synthetic preparation);

BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of fragrant 5,7,7-trimethyloctanenitrile via the Knoevenagel condensation of cyanoacetic acid and isononylaldehyde followed by catalytic hydrogenation)

IT 372-09-8. Cyanoacetic acid 1333-74-0. Hydrogen, reactions 49824-43-3. Isononylaldehyde

RL: RCT (Reactant); RACT (Reactant or reagent)

(preparation of fragrant 5,7,7-trimethyloctanenitrile via the Knoevenagel condensation of cyanoacetic acid and isononylaldehyde followed by catalytic hydrogenation)

RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD

RE

(1) Anic Spa; GB 1523028 A 1978 HCAPLUS

(2) Bush Boake Allen Ltd; EP 0017396 A 1980 HCAPLUS

(3) Int Flavors & Fragrances Inc; EP 0347596 A 1989 HCAPLUS

(4) Unilever Plc; EP 0074253 B 1983 HCAPLUS

=> b reg

FILE 'REGISTRY' ENTERED AT 11:29:40 ON 28 FEB 2005

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Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 25 FEB 2005 HIGHEST RN 838086-80-9

DICTIONARY FILE UPDATES: 25 FEB 2005 HIGHEST RN 838086-80-9

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 18, 2005

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:  
<http://www.cas.org/ONLINE/DBSS/registryss.html>

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L5 ANSWER 1 OF 9 REGISTRY COPYRIGHT 2005 ACS on STN

RN 681449-58-1 REGISTRY

CN 2-Octenenitrile, 5,7,7-trimethyl-, (2Z)- (9CI) (CA INDEX NAME)

FS STEREOSEARCH

MF C11 H19 N

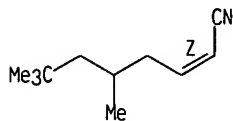
SR CA

LC STN Files: CA, CAPLUS, USPATFULL

DT.CA CAplus document type: Patent

RL.P Roles from patents: PREP (Preparation); RACT (Reactant or reagent)

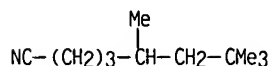
Double bond geometry as shown.



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

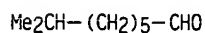
L5 ANSWER 2 OF 9 REGISTRY COPYRIGHT 2005 ACS on STN  
RN 681449-57-0 REGISTRY  
CN Octanenitrile, 5,7,7-trimethyl- (9CI) (CA INDEX NAME)  
FS 3D CONCORD  
MF C11 H21 N  
SR CA  
LC STN Files: CA, CAPLUS, USPATFULL  
DT.CA CAplus document type: Patent  
RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); PRP (Properties); USES (Uses)



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L5 ANSWER 3 OF 9 REGISTRY COPYRIGHT 2005 ACS on STN  
RN 49824-43-3 REGISTRY  
CN Octanal, 7-methyl- (9CI) (CA INDEX NAME)  
OTHER NAMES:  
CN 7-Methyloctanal  
CN Isononylaldehyde  
FS 3D CONCORD  
MF C9 H18 O  
LC STN Files: BEILSTEIN\*, CA, CAPLUS, CASREACT, CHEMLIST, CSCHEM, TOXCENTER, USPATFULL  
(\*File contains numerically searchable property data)  
Other Sources: EINECS\*\*  
(\*Enter CHEMLIST File for up-to-date regulatory information)  
DT.CA CAplus document type: Journal; Patent  
RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)  
RLD.P Roles for non-specific derivatives from patents: USES (Uses)  
RL.NP Roles from non-patents: ANST (Analytical study); BIOL (Biological study); FORM (Formation, nonpreparative); PREP (Preparation); RACT (Reactant or reagent)

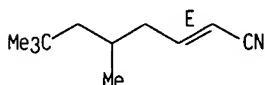


**\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\***

29 REFERENCES IN FILE CA (1907 TO DATE)  
2 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
29 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L5 ANSWER 4 OF 9 REGISTRY COPYRIGHT 2005 ACS on STN  
RN 29898-30-4 REGISTRY  
CN 2-Octenenitrile, 5,7,7-trimethyl-, (2E)- (9CI) (CA INDEX NAME)  
OTHER CA INDEX NAMES:  
CN 2-Octenenitrile, 5,7,7-trimethyl-, (E)- (8CI)  
FS STEREOSEARCH  
MF C11 H19 N  
LC STN Files: CA, CAPLUS, IFICDB, IFIPAT, IFIUIDB, USPATFULL  
DT.CA CAplus document type: Patent  
RL.P Roles from patents: PREP (Preparation); RACT (Reactant or reagent)

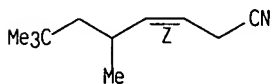
Double bond geometry as shown.

**\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\***

2 REFERENCES IN FILE CA (1907 TO DATE)  
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L5 ANSWER 5 OF 9 REGISTRY COPYRIGHT 2005 ACS on STN  
RN 29680-30-6 REGISTRY  
CN 3-Octenenitrile, 5,7,7-trimethyl-, (3Z)- (9CI) (CA INDEX NAME)  
OTHER CA INDEX NAMES:  
CN 3-Octenenitrile, 5,7,7-trimethyl-, (Z)- (8CI)  
FS STEREOSEARCH  
MF C11 H19 N  
LC STN Files: CA, CAPLUS, IFICDB, IFIPAT, IFIUIDB, SPECINFO, USPATFULL  
DT.CA CAplus document type: Patent  
RL.P Roles from patents: PREP (Preparation); RACT (Reactant or reagent)

Double bond geometry as shown.

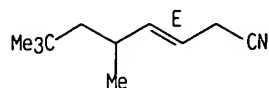
**\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\***

2 REFERENCES IN FILE CA (1907 TO DATE)  
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L5 ANSWER 6 OF 9 REGISTRY COPYRIGHT 2005 ACS on STN  
RN 29680-29-3 REGISTRY  
CN 3-Octenenitrile, 5,7,7-trimethyl-, (3E)- (9CI) (CA INDEX NAME)  
OTHER CA INDEX NAMES:  
CN 3-Octenenitrile, 5,7,7-trimethyl-, (E)- (8CI)  
FS STEREOSEARCH  
MF C11 H19 N  
LC STN Files: CA, CAPLUS, IFICDB, IFIPAT, IFIUIDB, SPECINFO, USPATFULL  
DT.CA CAplus document type: Patent

RL.P Roles from patents: PREP (Preparation); RACT (Reactant or reagent)

Double bond geometry as shown.



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

2 REFERENCES IN FILE CA (1907 TO DATE)  
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L5 ANSWER 7 OF 9 REGISTRY COPYRIGHT 2005 ACS on STN

RN 7782-50-5 REGISTRY

CN Chlorine (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)

OTHER NAMES:

CN Chlorine mol.

CN Chlorine molecule (C12)

CN Diatomic chlorine

CN Dichlorine

CN Molecular chlorine

FS 3D CONCORD

MF C12

CI COM

LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, AQUIRE, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CABA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CBNB, CEN, CHEMCATS, CHEMINFORMRX, CHEMLIST, CHEMSAFE, CIN, CSCHEM, CSNB, DDFU, DETHERM\*, DIOGENES, DIPPR\*, DRUGU, EMBASE, ENCOMPLIT, ENCOMPLIT2, ENCOMPPAT, ENCOMPPAT2, GMELIN\*, HSDB\*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK\*, MSDS-OHS, NIOSHTIC, PDLCOM\*, PIRA, PROMT, RTECS\*, TOXCENTER, TULSA, ULIDAT, USPAT2, USPATFULL, VETU, VTB

(\*File contains numerically searchable property data)

Other Sources: DSL\*\*, EINECS\*\*, TSCA\*\*

(\*\*Enter CHEMLIST File for up-to-date regulatory information)

DT.CA Caplus document type: Book; Conference; Dissertation; Journal; Patent; Preprint; Report

RL.P Roles from patents: ANST (Analytical study); BIOL (Biological study); FORM (Formation, nonpreparative); MSC (Miscellaneous); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses); NORL (No role in record)

RLD.P Roles for non-specific derivatives from patents: ANST (Analytical study); BIOL (Biological study); FORM (Formation, nonpreparative); MSC (Miscellaneous); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses)

RL.NP Roles from non-patents: ANST (Analytical study); BIOL (Biological study); FORM (Formation, nonpreparative); MSC (Miscellaneous); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses); NORL (No role in record)

RLD.NP Roles for non-specific derivatives from non-patents: ANST (Analytical study); BIOL (Biological study); FORM (Formation, nonpreparative); MSC (Miscellaneous); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses)

C1-C1

\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

68006 REFERENCES IN FILE CA (1907 TO DATE)

Search done by Noble Jarrell

2274 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
68058 REFERENCES IN FILE CAPLUS (1907 TO DATE)  
15 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L5 ANSWER 8 OF 9 REGISTRY COPYRIGHT 2005 ACS on STN

RN 1333-74-0 REGISTRY

CN Hydrogen (8CI, 9CI) (CA INDEX NAME)

OTHER NAMES:

CN Dihydrogen

CN Hydrogen (H2)

CN Hydrogen molecule

CN Mol. hydrogen

CN Molecular hydrogen

CN Orthohydrogen

CN Parahydrogen

CN Protium

DR 725200-57-7

MF H2

CI COM

LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, BIOBUSINESS, BIOSIS, BIOTECHNO,  
CA, CABA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CBNB, CEN, CHEMCATS,  
CHEMINFORMRX, CHEMLIST, CHEMSAFE, CIN, CSCHEM, CSNB, DDFU, DETHERM\*,  
DIOGENES, DIPPR\*, DRUGU, EMBASE, ENCOMPLIT, ENCOMPLIT2, ENCOMPAT,  
ENCOMPAT2, HSDB\*, IFICDB, IFIPAT, IFIUDB, IMSCOSEARCH, IPA, MEDLINE,  
MRCK\*, MSDS-OHS, NIOSHTIC, PDLCOM\*, PIRA, PROMT, RTECS\*, SPECINFO,  
TOXCENTER, TULSA, ULIDAT, USPAT2, USPATFULL

(\*File contains numerically searchable property data)

Other Sources: DSL\*\*, EINECS\*\*, TSCA\*\*

(\*\*Enter CHEMLIST File for up-to-date regulatory information)

DT.CA CAplus document type: Book; Conference; Dissertation; Journal; Patent;  
Preprint; Report

RL.P Roles from patents: ANST (Analytical study); BIOL (Biological study);  
CMBI (Combinatorial study); FORM (Formation, nonpreparative); MSC  
(Miscellaneous); OCCU (Occurrence); PREP (Preparation); PROC (Process);  
PRP (Properties); RACT (Reactant or reagent); USES (Uses); NORL (No role  
in record)

RLD.P Roles for non-specific derivatives from patents: ANST (Analytical  
study); BIOL (Biological study); MSC (Miscellaneous); OCCU (Occurrence);  
PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or  
reagent); USES (Uses)

RL.NP Roles from non-patents: ANST (Analytical study); BIOL (Biological  
study); CMBI (Combinatorial study); FORM (Formation, nonpreparative);  
MSC (Miscellaneous); OCCU (Occurrence); PREP (Preparation); PROC  
(Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses);  
NORL (No role in record)

RLD.NP Roles for non-specific derivatives from non-patents: ANST (Analytical  
study); BIOL (Biological study); FORM (Formation, nonpreparative); MSC  
(Miscellaneous); OCCU (Occurrence); PREP (Preparation); PROC (Process);  
PRP (Properties); RACT (Reactant or reagent); USES (Uses)

H-H

\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

295509 REFERENCES IN FILE CA (1907 TO DATE)

3621 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

295705 REFERENCES IN FILE CAPLUS (1907 TO DATE)

1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L5 ANSWER 9 OF 9 REGISTRY COPYRIGHT 2005 ACS on STN

RN 372-09-8 REGISTRY

CN Acetic acid, cyano- (6CI, 8CI, 9CI) (CA INDEX NAME)  
 OTHER NAMES:  
 CN 2-Cyanoacetic acid  
 CN Cyanoacetic acid  
 CN Cyanoethanoic acid  
 CN Malonic mononitrile  
 CN Monocyanoacetic acid  
 CN NSC 5571  
 FS 3D CONCORD  
 MF C3 H3 N O2  
 CI COM  
 LC STN Files: AGRICOLA, ANABSTR, AQUIRE, BEILSTEIN\*, BIOBUSINESS, BIOSIS, CA, CAOLD, CAPLUS, CASREACT, CBNB, CEN, CHEMCATS, CHEMINFORMRX, CHEMLIST, CHEMSAFE, CIN, CSCHEM, CSNB, DETHERM\*, EMBASE, GMELIN\*, HODOC\*, HSDB\*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK\*, MSDS-OHS, NIOSHTIC, PDLCOM\*, PIRA, PROMT, PS, RTECS\*, SPECINFO, SYNTHLINE, TOXCENTER, USPAT2, USPATFULL  
 (\*File contains numerically searchable property data)  
 Other Sources: DSL\*\*, EINECS\*\*, TSCA\*\*  
 (\*\*Enter CHEMLIST File for up-to-date regulatory information)  
 DT.CA CAplus document type: Conference; Dissertation; Journal; Patent; Report  
 RL.P Roles from patents: ANST (Analytical study); BIOL (Biological study); CMBI (Combinatorial study); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses); NORL (No role in record)  
 RLD.P Roles for non-specific derivatives from patents: BIOL (Biological study); PREP (Preparation); PROC (Process); RACT (Reactant or reagent); USES (Uses)  
 RL.NP Roles from non-patents: ANST (Analytical study); BIOL (Biological study); CMBI (Combinatorial study); FORM (Formation, nonpreparative); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses); NORL (No role in record)  
 RLD.NP Roles for non-specific derivatives from non-patents: ANST (Analytical study); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses)

NC-CH<sub>2</sub>-CO<sub>2</sub>H

\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1728 REFERENCES IN FILE CA (1907 TO DATE)  
 81 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
 1730 REFERENCES IN FILE CAPLUS (1907 TO DATE)  
 38 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

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FILE 'WPIX' ENTERED AT 11:29:44 ON 28 FEB 2005  
 COPYRIGHT (C) 2005 THE THOMSON CORPORATION

FILE LAST UPDATED: 24 FEB 2005 <20050224/UP>  
 MOST RECENT DERWENT UPDATE: 200513 <200513/DW>  
 DERWENT WORLD PATENTS INDEX SUBSCRIBER FILE, COVERS 1963 TO DATE

>>> FOR A COPY OF THE DERWENT WORLD PATENTS INDEX STN USER GUIDE,  
 PLEASE VISIT:  
[http://www.stn-international.de/training\\_center/patents/stn\\_guide.pdf](http://www.stn-international.de/training_center/patents/stn_guide.pdf) <<<

>>> FOR DETAILS OF THE PATENTS COVERED IN CURRENT UPDATES, SEE  
<http://thomsonderwent.com/coverage/latestupdates/> <<<



>>> FOR INFORMATION ON ALL DERWENT WORLD PATENTS INDEX USER GUIDES, PLEASE VISIT:  
<http://thomsonderwent.com/support/userguides/> <<<

>>> NEW! FAST-ALERTING ACCESS TO NEWLY-PUBLISHED PATENT DOCUMENTATION NOW AVAILABLE IN DERWENT WORLD PATENTS INDEX FIRST VIEW - FILE WPIFV.  
 FOR FURTHER DETAILS: <http://www.thomsonderwent.com/dwpifv> <<<

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>>> SMILES and ISOSMILES strings are no longer available as Derwent Chemistry Resource display fields <<<

>>> THE CPI AND EPI MANUAL CODES HAVE BEEN REVISED FROM UPDATE 200501. PLEASE CHECK:  
<http://thomsonderwent.com/support/dwpioref/reftools/classification/code-revision/> FOR DETAILS. <<<

=> d all 18

L8 ANSWER 1 OF 1 WPIX COPYRIGHT 2005 THE THOMSON CORP on STN  
 AN 2004-358450 [34] WPIX  
 DNC C2004-135920  
 TI New compound 5,7,7-trimethyloctanonitrile useful for imparting an iris aroma to fragrance compositions and perfumed products, especially bleaches.  
 DC D21 E16  
 IN FAHLBUSCH, K; PANTEN, J; SILLON, P; WERNER, M  
 PA (SYMR-N) SYMRISE GMBH & CO KG; (DRAG-N) DRAGOCO GERBERDING CO GMBH; (FAHL-I) FAHLBUSCH K; (PANT-I) PANTEN J; (SILL-I) SILLON P; (WERN-I) WERNER M  
 CYC 35  
 PI EP 1413570 A1 20040428 (200434)\* GE 7 C07C255-03  
 R: AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LT LU LV MC MK NL PT RO SE SI SK TR  
 DE 10247966 A1 20040506 (200434) C07C255-03  
 JP 2004137275 A 20040513 (200434) 8 C07C255-03  
 US 2004127394 A1 20040701 (200444) A61K007-46 <--  
 BR 2003004488 A 20040831 (200460) A61K007-46  
 CN 1502603 A 20040609 (200460) C07C255-03  
 ADT EP 1413570 A1 EP 2003-22338 20031004; DE 10247966 A1 DE 2002-10247966 20021015; JP 2004137275 A JP 2003-354687 20031015; US 2004127394 A1 US 2003-684726 20031014; BR 2003004488 A BR 2003-4488 20031014; CN 1502603 A CN 2003-1120359 20031015  
 PRAI DE 2002-10247966 20021015  
 IC ICM A61K007-46; C07C255-03  
 ICS C07C255-02; C11B009-00; C11D003-395; C11D003-50; D06L003-00  
 AB EP 1413570 A UPAB: 20041125  
 NOVELTY - 5,7,7-Trimethyloctanonitrile (I) is new.  
 DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for:  
 (1) fragrance composition or perfumed article containing (I);  
 (2) bleach composition comprising a bleaching agent, (I) and optionally conventional additives.  
 USE - (I) is useful for imparting an iris aroma to fragrance compositions and perfumed products, especially bleaches based on chlorine and/or hypochlorite.  
 ADVANTAGE - (I) has iris, vetiver, iris butter, woody and spicy aroma notes and has good stability in aggressive media, especially bleaches.  
 Dwg.0/0  
 FS CPI  
 FA AB; DCN  
 MC CPI: D08-B12; D10-A05; E10-A15E

=> b home  
FILE 'HOME' ENTERED AT 11:29:51 ON 28 FEB 2005

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